EXTENSION EDUCATION







Chapter - V



5.1 Directorate of Extension Education

The Directorate of Extension Education was established according to the Chapter-3, Part-IX vide Section 14.1(3) of the Gujarat Agricultural Universities Act-2004, for dissemination of the research findings and technical information through extension education programmes. The main function of the Directorate is to plan, coordinate, organize and guide the extension education programmes in the University and to ensure efficient working of the extension activities in close coordination with other departments and state voluntary organizations, other officers and scientists of the University. Extension Education is one of the triple functions of the Junagadh Agricultural University to boost up the agricultural production. The University has been

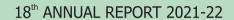
making substantial contribution in diffusing and communicating agricultural technologies among the extension personnel and farming community of the region. The technologies generated in agriculture and allied sciences by the University are being transferred to the end users. Dr. H. M. Gajipara supervised and guided the extension education activities during the reporting year.

5.2 Extension Education Council

The Extension Education Council was constituted according to the provision of the Gujarat Agricultural Universities Act-2004 in exercise of the statutes No S.31 & notification of Registrar No. JAU/Reg/Aca-2/Ext.Edu. Council/13887-13936/2013, date 31-07-2013. 15th Extension Education Council meeting was organized on 29.10.2021.

Extension Education Council:

No.		Designation/ Department	Position					
1	Pro	f. (Dr.) Narendra Kumar Gontia, Hon'ble Vice Chancellor, JAU, Junagadh	Chairman					
2	Dr.	P.M. Chauhan, Director of Research & Dean PG, JAU, Junagadh	Member					
3	The	e Deans of all Faculties						
	i	Dr. S.G. Savalia, Principal & Dean, College of Agriculture, JAU, Junagadh						
	ii	Prof. (Dr.) Narendra Kumar Gontia, Principal & Dean, College of Agril. Engg. &	Member					
		Technology, JAU, Junagadh						
	iii	Dr. C. D. Lakhlani, Principal & Dean, PGI ABM, JAU, Junagadh	Member					
4	Five	e Officer / Extension Education Specialists (Nominated by the Vice Chancellor)						
	i	Dr. N.B. Jadav, Professor & Head, Department of Extension Education, CoA,	Member					
		JAU, Junagadh						
	ii	Dr. B. N. Kalsariya, Principal, Polytechnic in Agriculture, JAU, Sidsar	Member					
	iii	1. Dr. N. S. Joshi, Senior Scientist & Head, Krishi Vigyan Kendra, JAU, Amreli	Member					
		2. Dr. L.L. Jivani, Senior Scientist & Head, Krishi Vigyan Kendra, JAU, Gor	Member					
		Khijadiya (Morbi)						
	iv	Prof. V.G. Barad, Assistant Extension Educationist, Sardar Smruti Kendra, JAU,	Member					
		Junagadh						
5		Eminent Extension Education Specialists concerned with farmers' training						
		m outside the University co-opted by the organization						
	i	Dr. P.R. Kanani, Retd. Professor, Block No. 47, Rajmoti Society, B/h. Bilnath	Member					
		Temple, Vanthali Highway, Junagadh						
	ii	Dr. M.N. Popat, Retd. Professor, "Krupa Sindhu", Street No. 11, Block No. 324,	Member					
		Rayajinagar Society, Junagadh						
	iii	Dr. D.M. Thakrar, Retd. Professor, Block No. 403, Giriraj Palace, Near	Member					
		Rameshwar temple, B/h. Bus Station, Junagadh						





No.		Designation/ Department	Position								
6	Dire	ector of Agriculture/ Horticulture & Animal Husbandry, GoG, Gandhinagar	Member								
7	Two	Two Progressive farmers (Nominated by the Vice Chancellor)									
	i	i Shri Vitthalbhai Nanjibhai Sakhiya, Krushna nagar, Kalavad- Dhoraji Road,									
		Kalavad, Dist. Jamnagar									
	ii	Shri Arvindbhai Mohanbhai Patoliya, "Star Plaza", Jin plot, Najapur Road,	Member								
		Mendarada									
8	Dr.	G.R. Gohil, Associate Director of Extension Education, JAU, Junagadh	Member								
9	Dr.	H.M. Gajipara, Director of Extension Education, JAU, Junagadh	Member								
			Secretary								
10	i	Dr. D.R. Mehta, Principal, College of Agriculture, JAU, Amreli	Invited								
	ii	Director of Extension Education, AAU, Anand	Member								
	iii	iii Director of Extension Education, NAU, Navsari									
	iv	Director of Extension Education, SDAU, S.K. Nagar									
	V	Dr. K.C. Patel. Director (IT), Information Technology Cell, JAU, Junagadh									

5.3 Extension Education and Training Centres

No.	Course / Programme	Location
Dipl	oma/Certificate Courses	
1	School of Baking	Junagadh
2	Mali Training Centre	Junagadh
3	Agro Based ITI Centre	Junagadh, Mahuva
Trai	ning Programmes for Extension Workers	
1	Training & Visit System Training Centre	Junagadh, Targhadia
2	Centre of Excellence for Training (Oilseeds)	Junagadh
Exte	nsion activity and Training Programmes Cent	res for Farmers/Farm Women
1	Krishi Vigyan Kendra	Jamnagar, Targhadia (Rajkot-I), Amreli, Khapat
		(Porbandar), Nanakandhasar (Surendranagar),
		Pipaliya(Rajkot-II), Gorkhijadiya (Morbi)
2	Sardar Smruti Kendra	Junagadh
Exte	nsion Education Programmes for Rural People	2
1	Farm Advisory Service Centre	Junagadh
2	Extension Programme for Fisheries	Okha

5.4 Extension Education and Training Programmes

(I) Diploma/Certificate Courses for Farm Youths

The Junagadh Agricultural University continued various Diploma/ Certificate courses during the year under report as per the details given below.



No.			Location	No. of participants Completed theCourse
1	Bakery Training			
	Basic Course in Baking	15 weeks	Junagadh	26
	Science			
	Special Training to Women	1 week	Junagadh	0
3	Mali Training	6 months	Junagadh	14
4	Agro Based ITI Centre	6 months	Junagadh	
	Seed Production Technology	6 months	Junagadh	0
	Green House Construction &			
	Systems Management	6 months	Junagadh	04

All these courses are aiming to impart skill oriented practical training to farmers' son/daughter in



Agro ITI Students during practical work

order to provide an opportunity for self-employment and employment in different organizations.



Agro ITI Students visit seed testing Lab



15-week course at Bakery Shala



15-week course certificate distribution at Bakery Shala





Examination of Mali Training

(II) Training Programmes for Extension Workers / Officers

(A) Training & Visit System

Junagadh Agricultural University has taken-up the task of training to the extension personnel of the Department of Agriculture and Horticulture, Government



Certificate distribution of Mali Training

of Gujarat through Training & Visit System. The bimonthly workshops, pre-seasonal training workshops and short-term training programmes were organized for the participants (DAO/ SMSs/ AEOs/KVKs) who attended the programmes is as under.

No.	Type of programme	No. of Programmes	No of Participants
1	Bimonthly Workshop	03	132
2	Pre-seasonal Training Programme	02	92
3	Khedut Shibir	11	732
	Total	16	956



Online Bi-monthly training programme under T & V scheme



Online Pre-Sesonal training programme under T & V scheme

(B) Other Training Programmes

The centre has continued to provide scientific knowledge to the farmers. The detail of the programmes are as under.



Khedut shibir and Diagnostic team visit

	No.	Subject	No. of Activities	No. of Scientists involved	Beneficiaries
	1	Khedut Shibir	124	222	3726
Ī	2	Diagnostic Team Visit	41	124	1146



Online farm women training programme under COC Scheme



Farmers training programme under COC scheme



Online farmers training programme under COC Scheme



Khedut Shibir at Ajota village under COC Scheme

Training programmes for Input Dealers during 2021-22:

No.	Title of cource	Duration	Participants
1	Certificate course on Pesticide Management	12 week	771
2	Certificate course on Pesticide Management	12 week	1041
3	Certificate course on Pesticide Management	12 week	1125
		Total	2937





Inauguration of Input Dealers course at Junagadh



Input Dealers course manual release



Examination of Input Dealers at Junagadh



Oral Examination of Input Dealers course at Junagadh

Training programmes for Fertilizer Dealers during 2021-22:

No.	Title of cource	Date	Duration	Participants
1	Integrated Nutrient Management for	09/08/2021 to 26/08/2021	15 Days	59
	Fertilizer Dealers			
2	Integrated Nutrient Management for	20/09/2021 to 07/10/2021	15 Days	54
	Fertilizer Dealers			
3	Integrated Nutrient Management for	18/10/2021 to 02/11/2021	15 Days	61
	Fertilizer Dealers			
4	Integrated Nutrient Management for	09/12/2021 to 23/12/2021	15 Days	64
	Fertilizer Dealers			
			Total	238







(III) Training / Extension Education Programmes for Farmers/Farm Women

(A) Training Programmes

Training is essential to increase the efficiency of farmers, farmwomen, rural youth and other stakeholders *etc.* On-campus as well as Off-campus



Certificate distribution to the Fertilizer Dealers training programmes were organized based on the need and interest of the farming community.

Through the Transfer of Technology (TOT) Centres, 202 On-campus and 238 Off-campus training programmes were organized, wherein 15255 participants received training. The details are given in Table 5.1.

Table 5.1 Training programmes organized by the Transfer of Technology Centres (KVKs) for farmers/farm women during the year 2021-22

No. of participants										
No.	TOT Centres		No. of Trg. Prog.	No. of pa	rticipants	Total				
	TOT Centres		No. of fig. 110g.	Male	Female	Total				
1	KVK,	A	15	290	328	618				
	Jamnagar	В	34	814	617	1431				
2	KVK,	A	27	590	90	680				
	Targhadia	В	38	891	83	974				
3	KVK,	A	67	1500	2026	3516				
	Amreli	В	58	1168	1358	2526				
4	KVK,	A	27	340	220	560				
	Khapat	В	30	213	372	585				
5	KVK,	A	26	427	230	657				
	Nanakandhasar	В	20	414	62	476				
6	KVK,	A	16	254	178	432				
	Pipalia	В	29	588	206	794				
7	KVK,	A	24	744	233	977				
	Gor Khijadiya	В	29	794	235	1029				
	Total	A	202	4145	3305	7440				
		В	238	4882	2933	7815				
	Grand Total		440			15255				

A= On-campus B= Off-campus





On Campus training programme at KVK, Morbi



Off Campus training programme by KVK, Nana Kandhasar

(B) Extension Activities

The Transfer of Technology (TOT) centres also planned and organized extension activities like seminars/workshops/symposium, field/farmers' day, agriculture fair/exhibitions, film/slide/video shows, field visits, cattle camps, farmers' group/demonstration meetings *etc*. by which total 73,256 farmers, farm women, youth and other stakeholders benefitted. The details of the extension activities and number of participants are given in Table 5.2

KVKs play an important role to provide guidance for income generation to the farmers by imparting skill-oriented trainings. Besides this, KVKs also conducted different types of extension activities, field day, cattle camp, on farm testing, dignostic team *etc*. The KVKs are also collecting feedback on farmers' problems, which were sent to the concerned scientists for guidance and solution with guideline in reforming further research.

Table 5.2 Extension activities carried out by TOT centres during 2021-22

	Name of				KVK				
No.	activity	Targhadia	Jamnagar	Khapat	Amreli	Nana Kandhasar	Pipalia	Gor Khijadia	Total
1	Krushi Mela	0	0	1	0	0	0	0	1
				(35)					(35)
2	Field day	6	8	0	15	3	7	3	105
		(133)	(117)		(228)	(89)	(62)	(95)	(724)
3	Guidance on	12	17	16 (77)	41	0	30	33	149
	farm	(25)	(182)		(827)		(105)	(146)	(1362)
4	Guidance to	42	151	126	51		50	69	489
	visitors	(465)	(1266)		(1211)	(1397)	(1065)	(351)	(5755)
5	Press note	10	24	4	30	19	5	25	117
6	Khedutshibir/	11	11	0	2	2	4	18	48
	Night shibir/	(331)	(363)		(158)	(34)	(111)	(109)	(1106)
	Group								
	discussion								



	Name of KVK								
No.	activity	Targhadia	Jamnagar	Khapat	Amreli	Nana Kandhasar	Pipalia	Gor Khijadia	Total
7	Guidance	(346)	(4342)	(442)	(1258)	(2905)	(1150)	(1823)	(12266)
	through								
	Telephone		10	2		0		1.0	26
8	Krushigosthi/	2	10	3	0	0	3	18	36
	Seminar	(413)	(1260)	(111)	0	1	(62)	(132)	(1978)
9	Khedut	4 (52)	4 (51)	0	0	(510)	20	03	32
1.0	meeting	(52)	(51)	0	0	(510)	(689)	(206)	(1508)
10	T.V. Programme	0	3	0	0	0	10	0	13
11	Radio talk	0	3	4	14	5	0	0	26
12	Popular articles	0	9	1	4	0	4	17	35
13	Video show/	1	11	0	15	41	3	05	76
	Film show	(52)	(794)		(663)	(1682)	(198)	(442)	(3831)
14	Cattle camp	1	0	0	0	1	3	0	5
		(78)				(200)	(40)		(318)
15	Literature	5	21	5	0	11	10	07	59
	distribution	(950)	(1917)	(2175)		(755)	(475)	(510)	(6782)
16	Literature published	0	10	0	0	0	4	0	14
17	Lectures	21	125	31	116	361	10	05	669
	delivered	(1489)	(6357)	(561)	(4106)	(8389)	(427)	(236)	(21565)
18	Scientist's	12	26	16	48	15	30	25	172
	Farm visit	(25)	(350)	(77)	(994)	(825)	(105)	(146)	(2522)
19	Vocational	5	1	1	1	0	2	01	11
	training	(250)	(30)	(15)	(40)		(77)	(29)	(441)
20	Sponsored/	5	2	12	5	40	18	06	88
	Collaboration training	(146)	(62)	(1770)	(160)	(2488)	(666)	(287)	(5579)
21	Diagnostic	2	6	4	8	0	42	05	67
	team	(21)	(31)	(37)	(40)		(186)	(50)	(365)
22	Student	1	0	1	3	3	0	0	8
	(RAWE)	(53)		(38)	(89)	(107)			(287)
23	Celebration of		1	1	1	1	1	1	7
	Technology Week	(686)	(520)	(315)	(291)	(357)	(281)	(131)	(2581)



	Name of activity	KVK							
No.		Targhadia	Jamnagar	Khapat	Amreli	Nana Kandhasar	Pipalia	Gor Khijadia	Total
24	Soil Sample Analyzed	50	130	62	119	0	0	38	399
25	Participated in Agril. Exhibition	0	1 (1787)	1	8	7 (557)	0	0	17 (2344)
26	Any other please specify	0	0	0	0	15 (661)	15 (708)	03 (538)	33 (1907)
	Total								

Figures in parentheses indicate number of beneficiaries/copies

(C) Front Line Demonstrations (FLD)

The aim of Front Line Demonstration is to demonstrate the production potentialities of newly released and pre-released production technologies of cotton, wheat, cumin, vegetables, pulses and oilseeds on farmers' fields.

In all, **968 FLDs** were conducted on various oilseeds and pulses, Crop technologies *viz.*, castor, mustard, groundnut, sesamum, cotton, gram, wheat, pearl millet and cumin crop technologies in **323 ha** during *kharif* and *rabi* seasons through KVKs. The results are present in Table 5.3

Table 5.3 Performance of Frontline Demonstrations organized during 2021-22

No	Centre	Crop	Variety/	No. of	Area	Av. yi	eld (q/ha)	Increase in
110	Centre	Стор	Treatment	FLDS	(ha)	Demo.	Local check	yield (%)
1.	KVK,	Groundnut	Varietal evaluation	10	4.0	27.00	21.00	28.60
	Targhadia		(GJG-22) + IPM					
		Groundnut	Varietal (GJG-32) +	10	4.0	29.00	23.00	26.08
			INM+IDM + IPM					
		Gram	Varietal evaluation	50	20	23.75	20.50	15.85
			(GG-5)					
		Cumin	IPM (GC-4)	10	4	11.69	9.73	20.00
		Cumin	IDM (GC-4)	5	2	12.25	10.50	14.28
2.	KVK	Sesame	Guj. Til. 5 seed,	25	10	7.75	6.85	13.14
	Jamnagar		Trichoderma,					
			Beauveria,					
			Azotobacter, PSB					
		Groundnut	Improved var.	25	10	16.18	15.02	7.72
			Seed (GJG-22),					
			Metarhizium					
			anisopliae,					
			Trichoderma,					
			PSB, Rhizobium					



Na	Centre	C	Variety/	No. of	Area	Av. yi	eld (q/ha)	Increase in
No	Centre	Crop	Treatment	FLDS	(ha)	Demo.	Local check	yield (%)
		Castor	Variety GCH-9	20	8	34.69	31.06	11.67
		Chickpea	Varietal (GG-5),	50	20	22.16	20.48	8.18
			Trichoderma, PSB,					
			Rhizobium,					
			Beauveria bassiana					
		Pearl	Pearl millet Seed	10	4	47.63	46.19	3.11
		Millet	(GHB-1231)					
		Wheat	Variety –GW 463	10	4	51.75	46.75	10.78
		Ajwain	Beauveria,	10	4	10.93	10.29	6.20
			Trichoderma,					
			Azotobactor, PSB					
		Cumin	Beauveria,	20	8	7.81	7.08	10.42
			Trichoderma,					
			Azotobactor, PSB,					
		Coriander	Beauveria,	20	8	12.21	11.01	10.90
			Trichoderma,					
			Azotobactor, PSB,					
		Cotton	Azadirachtin,	25	10	13.45	11.20	20.72
			Profenophos., MDP,					
			HNPV, Beauveria					
			bassiana				110.10	20.11
		Kitchen	Vegetable seed,	50	2	536	418.40	28.11
		Garden	Beauveria			kg/unit		
		C1.	bassiana	-		127.50	120.0	4.67
		Chicory	Beauveria,	5	2	137.50	120.0	4.67
		G ti	Azotobactor, PSB	-	2	2.74	2.20	10.71
		Cotton	Cotton picking	5	2	3.74	3.38	10.71
		A : 1	Apron	2	0	kg/hr	020	15.05
		Animal	Bypass Fat	3	0	1070	930	15.05
		(Cow)				li./5		
3.	KVK	Castor	GCH-9	10	4	months 28.24	24.79	14.30
3.	Amreli	Castor	INM	10	4	12.2	11	10.91
	Allifeli	Wheat	INM	10		49.12	42.696	15.05
		Cumin	IDM	10	4	8.86	7.62	16.27
		Coriander	GC-2	10	4	11.87	10.03	18.34
		Sesame	GC-2 GT-3	10	4	12.21	10.03	14.33
		Black Gram	Guj. Urd2	10	4	9.736	8.43	15.49
			, and the second					
		Green Gram	GM-6	10	4	8.58	7.48	14.71





No	Contro	Cwom	Variety/	No. of	Area	Av. yi	eld (q/ha)	Increase in
No	Centre	Crop	Treatment	FLDS	(ha)	Demo.	Local check	yield (%)
4.	KVK	Groundnut	GJG-22	10	4.0	20.87	18.81	11.08
	Khapat	Chickpea	GG-1/Digvijay	10	4.0	24.31	21.81	11.55
		Onion	Pilipati	10	4.0	311.81	279.86	11.58
		Wheat	GW-451	10	4.0	52.75	48.13	9.64
		Kitchen	5 var. of different	50	2.5	48.70	-	-
		Gardening	veg.					
5.	KVK	Chickpea	GG-5	10	04	30.13	25.92	16.22
	Nankhadhas	Cumin		20	08	09.52	08.24	15.59
	ar	Wheat	GW-451	20	08	49.88	42.17	18.27
		Lucerne	AL-3	10	01	405	340	19.12
		Chick pea	GG 5 and	50	20	22.51	18.75	20.05
		(CFLD)	Bio agents					
		Onion	Pillipati	10	01	320.67	260.59	23.06
		Sesame	GT-4	10	04	2.84	2.51	13.05
		Groundnut	Gir Sawaj	10	04	13.36	12.16	9.89
			Metarizium					
		Groundnut	Gir Sawaj Trichoderma	05	02	13.15	11.18	17.62
		Cotton		10	04	16.59	13.86	19.68
		Groundnut	GJG-22 and Bio	50	20	18.72	13.80	17.82
		(CFLD)	Agents	30	20	10.72	13.97	17.82
		Tomato	GT-6 and	10	01	275.68	254.49	8.33
		Tomato	Beauveria	10		273.00	234.47	0.55
6.	KVK	Groundnut	GJG-32	10	4	35.73	30.18	18.38
0.	Morbi	Sesamum	GJT-5	10	4	8.25	8.00	3.10
	1410101	Black gram	GU-2	10	4	3.83	3.00	27.60
		Chick pea	GJG-6	10	4	16.52	14.81	11.50
		Pearl millet	GHB-538	5	2	34.62	34.60	4.56
		Pearl millet	GHB-1129	5	2	36.18	34.60	4.56
		(Biofortified)			_	20,10	2 .,00	
		Cotton	Management of pink bollworm-MDP	10	4	17.44	16.51	5.60
		Cumin	Wilt management through Trichoderma	10	4	12.82	11.44	3.20



ът	G .		Variety/	No. of	Area	Av. yi	eld (q/ha)	Increase in
No	Centre	Crop	Treatment	FLDS	(ha)	Demo.	Local check	yield (%)
7.	KVK	Groundnut	GG - 22	10	4	18.2	19.9	14.47
	Pipalia	Groundnut	GG - 20	10	4	31.6	25.8	22.82
		(Tricho)						
		Groundnut	GG - 20	10	4	32.3	25.3	27.72
		Cotton	Bt.	10	4	22.0	19.8	11.39
		(INM)						
		Cotton	Bt.	5	5	21.3	18.3	16.44
		(IPM)	CT. 2	10	4	20.4	272	4.41
		Tomato	GT-3	10	4	284	272	4.41
		(INM-Rabi 20-21)						
		Brinjal	VNR Harsh F1	10	4	392.5	362.9	8.16
		(INM-Rabi	VINIX Harsh 1-1	10	-	394.3	302.9	8.10
		20-21)						
		Onion	Pili Patti	10	4	254	232	9.48
		(INM-Rabi						
		20-21)						
		Brinjal	ARBH 905	10	4	440.6	403.8	9.11
		(IPM-						
		Kharif 21)						
		Tomato	GT-3	10	4	398.9	377.3	5.72
		(INM-						
		Kharif 21)						
		Kitchen	Vegetable seeds	50	0.5	1327.08	1109.40	19.62
		Gardening						
		Drudgery	Rev. Stool & stand	5	0	1.82	2.57	29.22
		Reduction						
		(Time						
		saving %)		0.00	222			
			Total	968	323			

(D) FarmAdvisory Service Scheme/SSK, Junagadh

The Farm Advisory Service Scheme has been continued at SSK, Junagadh with a view to provide guidance and the latest information to the farmers on scientific farming. The farmers were advised regarding

their farm problems through correspondence and field visits. This centre acted as a link among research scientists, extension workers and farmers. During the year under report, various extension activities carried out by the centre are given below.

No.	Name of activity	No. of activities	No. of participants
1	Agril. Fair	02	19841
2	Agril. Exhibitions	04	18479
3	Guidance (Telephone & Personal Contact)	7715	7715
4	Visitors	4820	4820



(E) Extension Activities under Centre of Communication (COC) Scheme

Objectives of COC Scheme

- a. To establish the *Gram Kisan Samitis* (GKS) in the rural areas.
- b. To train the members of *Gram Kisan Samitis* in leadership, communication and cooperation for transfer of technologies.
- c. To disseminate the latest agricultural and allied technologies through *Gram Kisan Samitis* in rural areas.
- d. To carry out different extension activities through GKS in different villages.
- e. To know the feedbacks from the farmers.

Online Training Programmes under Centre of Communication (COC) Scheme

No.	Subject	No. of Training Programmes	No. of Beneficiaries
1	Agriculture and Animal husbandry	1	35
2	Horticulture crop production	1	45
3	Agriculture	1	110
	Total	3	190

One-Day Training Programmes under Centre of Communication (COC) Scheme

No.	Subject	Date	No. of Training Programmes	No. of Beneficiaries
1	Agriculture and Animal husbandry	20/09/2021	1	24
2	2 Horticulture crop production 14/02/20		1	134
		2	158	

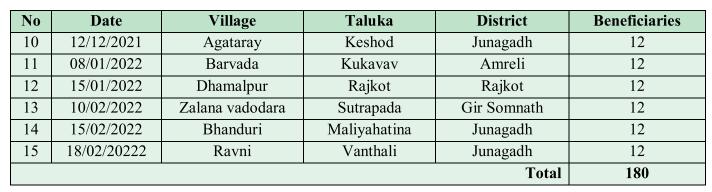
Three-Day Training Programmes under Centre of Communication (COC) Scheme

No.	Subject	Date	No. of Training Programmes	No. of Beneficiaries
1	Animal husbandry	13-15/09/2021	1	40
2	Horticulture crop production	21-23/03/2022	1	54
		Total	2	94

Formation of *Gram Kisan Samitis* during the year 2021-22

1 01 1110	of mation of oran histor banacis during the year 2021 22						
No	Date	Village	Taluka	District	Beneficiaries		
1	05/05/2021	Sangodra	Talala	Gir Somnath	12		
2	08/05/2021	Prabhatpur	Junagadh	Junagadh	12		
3	27/05/2021	Mesvan	Keshod	Junagadh	12		
4	06/06/2021	Sergadh	Keshod	Junagadh	12		
5	18/06/2021	Vadod	Vadhvan	Surendranagar	12		
6	17/07/2021	Katada	Dhrol	Jamnagar	12		
7	20/08/2021	Badodar	Keshod	Junagadh	12		
8	25/09/2021	Lathodra	Maliya	Junagadh	12		
9	10/12/2021	Rajsitapur	Dhagandra	Surendranagar	12		





Khedut Shibirs organized during the year 2021-22 under COC scheme

No.	Date	Village	Taluko	District	Beneficiaries
1	18/10/2021	Bhiyal	Junagadh	Junagadh	39
2	25/10/2021	Nandana	Kalayanpur	Jamnagar	115
3	29/11/2021	Sukhpur	Maliyahatina	Junagadh	45
4	08/03/2022	Khambhaliya	Bhesan	Junagadh	38
		237			

Bakery Talim organized during the year 2021-22 under COC scheme

No.	Date	Village	Taluko	District	Beneficiaries
1	29/10/2021	Joshipara	Junagadh	Junagadh	32
2	23/02/2022	Samadhiyala	Bagasara	Amreli	52
3	08/03/2022	Choki	Junagadh	Junagadh	20
4	08/03/2022	Khambhaliya	Bhesan	Junagadh	25
				Total	129

(F) Extension Activities carried out by Extension Education Centres

Extension activities carried out by various Extension Education Centres during the year are given below.

No.	Name of activity	Sardar Smruti	Fisheries Res.	School of Baking,	Total
110.	Name of activity	Kendra, Junagadh	Station, Okha	Junagadh	Total
1	Krushi Mela	2 (19841)	0	0	2 (19841)
2	Guidance on farm	0	0	0	0
3	Guidance to visitors	(4820)	(471)	0	(5291)
4	Press note	28	0	0	28
5	Khedut shibir/ Night	02	01	0	03
	shibir/Group discussion	(59)	(225)		(284)
6	Guidance through	(2895)	(18)	0	(2913)
	Telephone				
7	Khedut talim/Khedut	45	0	0	45
	Mahila talim	(2196)			(2196)
8	Video show/ Film show	0	0	0	0





No.	Name of activity	Sardar Smruti Kendra, Junagadh	Fisheries Res. Station, Okha	School of Baking, Junagadh	Total
9	Literature distribution	03	0	0	03
		(6500)			(6500)
10	Literature Publication	03	0	0	03
11	FisheriesTraining	0	0	0	0
12	Bakery Training	0	0	23	23
				(1286)	(1286)
13	Agri.Exibition	04	0	0	04
		(18479)			(18479)
14	Agri.Literature show	04	0	0	04
		(16279)			(16279)
				Total	115
					(73069)

Figures in parentheses indicate numbers of beneficiaries/copies



Educational Tour - Shree M.J.Kumbhani High School, Plasva, Junagadh



Off Campus Mahila Khedut Talim



Exposure visit - FTC - Dahod



One day Training - ATMA project - Keshod



Radio Talks and TV Programmes

The scientists of the university delivered radio talks from time to time on various agricultural and allied subjects from All India Radio, Rajkot. Moreover, the broadcast of agricultural messages were also made from All India Radio, Rajkot. During the year, total 26 such talks were delivered on different topics related to agriculture, horticulture, agricultural engineering, animal husbandry, *etc*.

In all, total 23 television programmes covering various aspects of agriculture, animal husbandry, agricultural engineering, horticulture, fisheries, home science, etc. were telecast through Doordarshan Kendra, Rajkot in "*Gram Jagat*" "*Krishi Darshan*" programme for the benefit of farming community.

AGRISNET studio and Community Radio Station (CRS)

AGRISNET studio is established with objective to produce and disseminate agricultural technologies to farmers through electronic media/ format. Under

LIFE (Live Interaction with Farmers' through Electronic media) two innovative programs started.

Two, LIVE YOUTUBE STREAMING, in which live program broadcasted through YouTube. Reliance Foundation and ATMA project, Junagadh popularized these programs through their farmer related WhatsApp contacts.

The CRS is transmitting four hours program daily. It covers about 12 km area having 45 villages and Junagadh city. To bring larger area under reach of braodcasting radio content, Android Based Mobile Application launched in June 2021. Through audio streaming by this App, the content of Junagadh Janvani 91.2 MHz can be listened by the whole world. There is big response to this App. AGRISNET studio established with objective to produce and disseminate agricultural technologies to farmers through electronic media/ format.

Different activities of AGRISNET Studio

No.	Subject	No of Programs	Beneficiaries		
1	Broadcasting through Radio	14600 programs	Farmers, students and people of Junagadh		
		(1460 Hours	city and surrounding 55 villages		
		Broadcasting)			
2	Agriculture related events/	37	These documentaries were visited by		
	documentaries		>26,00,000 viewers so far. Subscribed by		
			>43000 subscribers		
3	Small Video Clips	31	Farmers of various whatsapp groups of JAU		
			scientist / centers		
4	Live broadcasting of program by	09	Broadcasting of 60 minutes episode on agri		
	JAU expert on TV channel Vande		related programs of JAU scientists through		
	Gujarat 04 Talks through BISAG		BISAG, Gandhinagar on TV Channel		
			Vande Gujarat 04.		
5	Talks Through Doordarshan,	23	Broadcasting of 25 minutes episode on agri		
	Rajkot		related programs of JAU scientists		
			Doordarshan, Rajkot.		
6	Talks through Akashvani, Rajkot	26	Broadcasting of 25 minutes radio episode		
			on agri related programs of JAU scientists		
			Akashvani, Rajkot.		





No.	Subject	No of Programs	Beneficiaries
7	Visitors	843	Farmers, students and others for
			participation in audio recording visited CRS
			station.
8	Photography	96 Events	For documentation, publication and
		(4860	exhibition/ display of various activities/
		Photographs)	events on education, research and extension
			education of JAU, photography and archive
			maintenance is carried out at AGRISNET
			studio.

Different activities Photographs of AGRISNET Studio



Launching of Android Based Mobile App JUNAGADH JANVANI 23-06-2021



Visit of Shri Radha Mohan, Ex- cabinet minister for Agriculture and Farmers' Welfare, Government of India



Visit of Vinod Gontia, Chairman, Tourism Development Corporation, Madhya Pradesh



Radio recording in the Field





Students for recording

Coordination of Extension Activities with Department of Agriculture, Horticulture, Animal Husbandry and Other Line Departments

Junagadh Agricultural University planned and organized various extension education programmes/ activities in coordination with different line departments of the state. The structural linkages exist under T&V system by constituting the technical committee at district, zonal and state level. The agricultural programmes of All India Radio as well as Doordarshan were finalized by such coordinated efforts. In AGRESCO, the officers of line departments are the members and they contribute in formulation of technical programmes as well as in finalizing the recommendations for the farmers. The functional linkages also exist under T & V system through bimonthly workshops, pre-seasonal workshops, fortnightly training, diagnostic team, state level crop seminars/workshop, etc. The coordination exists in follow-up programmes as well as in planning of farm trials. For transfer of technologies to the farmers, the farmer's day, krushi mela, group discussion, film show, etc. were organized through collaborative efforts.

5.5 Orientation Training Programme

During the year under report, 222 scientists /teachers of the University were deputed in the orientation training programmes/ seminars/ workshops / symposium, etc. organized within and outside the state to upgrade their knowledge and skill for improving faculty competence in respective disciplines.



Recording of Scientists of JAU

5.6 Agri Gujarat Expo-2021

The Agri Gujarat Expo-2021 was jointly organized by Junagadh Agricultural University, Junagadh and Spark Media Inc., Ahmedabad from November 19 to 21, 2021 at JAU, Junagadh. The agricultural exhibition organized under Agri Gujarat Expo-2021 spread across 2500 sq. m. The technologies were exhibited in 70 stalls of different agriculture and allied companies, 13 stalls of different departments of JAU, Junagadh and 04 stalls of natural farming.

Under Agri Gujarat Expo-2021, a poster presentation on the theme of agriculture and related subjects was made by the college students of JAU on November 19, 2021. The Seminar on the use of modern technology in agriculture was organized on November 20, 2021. The JAU scientists delivered the lectures on new dimensions of modern technology in agriculture, mango export oriented farming method, scientific animal husbandry business to earn more income, skill development, startup, FPO, agro tourism and use of artificial intelligence in pest control. Apart from this, a seminar for sharing the success stories of farmers was also organized on November 21, 2021. Nine farmers delivered the talk on innovative approaches adopted by them successfully.

During the Agri Gujarat Expo-2021, about 12000 farmers and farm women from more than 325 villages of Saurashtra enthusiastically participated and got up-to-date information on agriculture, agricultural engineering and allied subjects. Approximately 2000 students of schools and colleges, scientists and local resident from the city participated in the event.





Inauguration of Agri Gujarat Expo-2021



Participants of Agri Gujarat Expo-2021



Farmers Falicitated in Agri Expo-2021



Farmers visited Exibition of Agri Expo - 2021



Dignitaries visited the Exibition at Agri Expo-2021



Seminar opening during Agri Expo-2021





Farmer at Agri Expo-2021



Subhash Palekar Prakrutik Krushi Talim Karyshala was Jointly organized by Junagadh Agricultural University, Junagadh and ATMA Project, Gandhinagar & *Prakrutik Kheti Sanyojak Samiti*, Gujarat on 11th to 13th March, 2022 at Shri Swaminarayan



Inaugural speech by Hon' Vice chancellor of JAU





Poster presentation by JAU students during Agri Expo - 2021

Mukhya Mandir, Jawahar Road, Junagadh during the programme around 2000 participants including natural farming following farmers and ATMA staffs belong to 10 districts of Saurashtra region participated in the programme.



Participants of Karyashala



Inaugural speech by dignitaries



5.7 ICAR projects

1. Farmer FIRST programme

The farmer FIRST programme was started on 30th, January 2017 by Junagadh Agricultural University under ICAR. Under this programme, during the year 2021-22, total 454 small and marginal farmers including SC farmers and women farmers were selected on the basis of the land holdings, irrigation facilities, crops grown, available resources and their interest in particular module with consideration of prescribed objectives and norms as per the ICAR guidelines for the project. The basic

survey was carried out for planning to conduct experiments on Crop-based module, NRM based Module, Crop diversification based module, Horticultural based module and Livestock based module in four villages (Nava vaghaniya, Mavjinjava, Hadala and Deri- pipaliya of Amreli districts). The inputs were distributed to the farmers of these village according to modules. They were given training and advisory to utilise these inputs with available resources in their farms. The results of different modules were presented in annual meeting of Farmer FIRST Project.

5.7.1 Results of demonstrations on farmers' fields under different modules during 2021-22

No	. Modules	Av. Yiel	d (q/ha)	Gross Income(Rs/ha)		Net Income (Rs/ha)		
110	. Wiodules	Before	After	Before	After	Before	After	
1	Wheat	37.20	42.35	73,470	83,641	40,782	50,391	
2	Gram	17.11	20.45	68,466	81,820	34,965	45,700	
3	NRM-Gram	17.92	21.27	98,534	1,16,984	63,894	80,844	
4	Livestock	07.42	08.58	1,06,848	1,23,552	86,848	98,072	
		lit/buffalo/day	lit/buffalo/day					

During the year, extension activities were carried out for effective implementation of farmer FIRST project and to motivate farmers to adopt the recommended crop production, dairy farming, Integrated Farming, value addition practices for increasing farmers' income and employment generation.

Photographs of different activities carried out under Farmer FIRST Project



Field observation by scientists



Explanation about intervention







Field visit by Principal Investigator



Field visit by scientists



On farm meeting with farmers



Farmers meeting for organic farming & FPO



Distribution of watermelon seed and mulching material



Explanation about intervention and group discussion



2. Mera Gao Mera Gavarav (MGMG)

"Mera Gaon Mera Gaurav" Scheme was launched by Hon'ble Prime Minister on July 25, 2015 on the 87th Foundation Day of the ICAR & KVK Conference at Patna.

For implementation for MGMG scheme in Junagadh Agricultural University, total 30 teams of 117 scientists were deputed covering 150 villages of Saurashtra region of Gujarat for conducting different frontline extension activities. Under this scheme,

scientists of J.A.U. visited the adopted villages and disseminate the latest agricultural technologies amongst the farmers. Frontline demonstrations on improved agricultural technologies and improved varieties are being also conducted by the scientists on farmer's field. In addition to this, scientist are in regular contact with the farmers of the adopted villages and extend advisory services through trainings, messages, kisan goshthies and mobile based advisories, literature support provided etc.

No. of Team of Scientists	No. of Scientists	No. of Villages	No. of Blocks	No. of Districts	Bench Mark Survey conducted (No. of villages)
30	117	150	23	8	150

Activities undertaken

Activities organised under MGMG during 2021-22

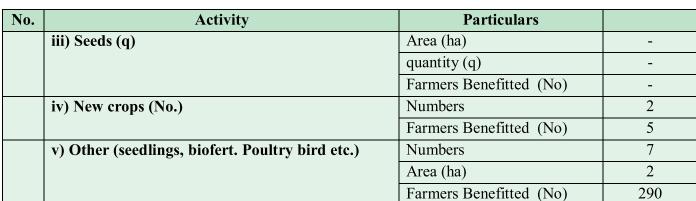
No.	Name of activity	No. of activities conducted	No. of farmers benefitted
1	Awareness created	151	2005
2	Demonstrations conducted	20	328
3	Interface meeting/ Goshthies	91	1245
4	Literature support provided	383	3621
5	Training organized	42	988
6	Visit to village by teams	172	2036
7	Mobile based advisories	837	14150
	Total	1696	24373

Other activities organized under MGMG during 2021-22

Table -2 Other activities organized by ICAR Institutes under MGMG

No.	Activity	Particulars	
1	Linkages developed with other agencies	No of Agency (No)	24
		Farmers Benefitted (No)	1191
2	Facilitation for		
	i) New varieties	Numbers	06
		Area (ha)	78
		Farmers Benefitted (No)	305
	ii) Technology (No)	Numbers	7
		Area (ha)	6.8
		Farmers Benefitted (No)	164





Photographs of different activities carried out under MGMG



Training organized at Mota Bhandariya village



Training organized at Mendapara village



Diagnostic Visit at Bhiyal village



Diagnostic Visit at Prabhatpur village





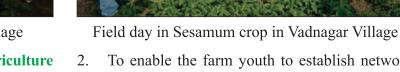
Field day in Cotton Crop in Jivapar Village

Attracting and Retaining Youth in Agriculture 3. (ARYA)

A. KVK Targhadia

Objectives of the ARYA Project:

To attract and empower the youth in rural areas to take up various agriculture, allied and service sector enterprises for sustainable income and gainful employment in selected districts.



- To enable the farm youth to establish network groups to take up resources and capital intensive activities like post-harvest technology, processing & value addition, nursery management, milk processing and marketing.
- To demonstrate functional linkage with different institutions and stakeholders for convergence of opportunities available under various schemes / program for sustainable development of youth

Training Programme (Year: 2021-22):

No.	Training	No. of Youth participated
1	Nursery management	22
2	Post-harvest technology and value addition	25

Various Enterprises at different Villages under **ARYA Project:**

Entrepreneurship development activities were started with focus of processing & value addition, Milk processing and Nursery management.

Mini Oil Mill Unit at Targhadi village of Paddhari taluka:

An entrepreneurial group of 15 rural youths in Taraghadi village started enterprise of Mini Oil Mill unit and producing groundnut oil through processing of groundnut. The group earned net profit of Rs. 1,74,800 per month by selling groundnut oil and cake. This enterprise is run more than 8 month during the year and earning net profit of Rs. 13,11,000 per year.

Mini Oil Mill Plant at Raningpar village of Jasdan taluka:

The group of 15 rural youths in Raningpar village is earning upto Rs. 1,42,025 per month through processing of groundnut by enterprise of mini oil mil/plant. This enterprise is run more than 8 month during the year and earning net profit of Rs. 10,62,750 per year.

Entrepreneurship development through spices processing:

An enthusiastic group of 7 rural youths in Gadhaka village started enterprise of Spice processing unit and earning upto Rs. 61,500 per month. This enterprise is run more than 6 month during the year and earning net profit of Rs. 3,69,125 per year.



4. Entrepreneurship development through Namkeen (*Farsan*) making:

An entrepreneurial group of 5 youths at Targhadia village started Namkeen making enterprise. They are making and selling Namkeen (Farsan) products and earning net profit of Rs. 3,90,000 per year.

5. Milk-Mava making at Ambardi village:

The active group of 8 youths at Ambardi village of Jasdan taluka started milk processing enterprise. They are producing milk-mava by processing of raw milk. The group generated net profit of Rs. 43,750 per month. This enterprise earning net profit of Rs. 4,37,500 per year.

6. Mini cleaning cum grading machine unit at Dungarka village of Paddhari taluka:

An entrepreneurial group of 8 rural youths in Dungarka village started enterprise Mini cleaning

cum grading machine unit. This enterprise is run 5 month during the year and earning net profit of Rs. 2,80,000 per year.

7. Mini Dall Mill unit at Sal Pipaliya village of Paddhari taluka:

An entrepreneurial group of 10 rural youths in Sal Pipaliya village started enterprise Mini Dall Mill unit. This enterprise is run 6 month during the year and earning net profit of Rs. 3,90,000 per year.

8. Nursery unit at Gunda village of Rajkot taluka:

An entrepreneurial group of 4 rural youths in Gunda village started enterprise Nursery unit. This enterprise earning net profit of Rs. 1,80,000 per year.

B. KVKAmreli

Details of Progress of ARYA Project

Name of Enterprise	No of Training	No of Beneficiaries	No of Extension	No of Beneficiaries	No of Unit established	Chang inco		No. Of Groups
Enterprise	Conducted	Deficileraties	Activities	Deficileraties	established	Before	After	Formed
Dal mill	3	96	1	150	2	Results	s are	1
Masala	2	70	1	37	2	await	ted	1
making								
Mava	2	181	2	64	2			1
making								

4. DAMU District Agro-Meteorological Unit (DAMU) Gramin Krishi Mausham Seva (GKMS):

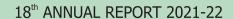
A. KVK Jamnagar:

The District Agromet Unit is running successfully in Krishi Vigyan Kendra, JAU, Jamnagar since October 25, 2019 by recruitment of SMS (Agrometeorology) and

Agromet observer. The District Agrometeorological Unit, KVK, JAU, Jamnagar is making Agro weather bulletin for all the 09 blocks viz. Jamnagar, Dhrol, Jamjodhpur, Jodiya, Kalavad and Lalpur in Jamnagar District and Kalyanpur, Khambhaliya and Okhamandal in Devbhumi Dwarkar District.

Number of Weather Bulletin prepare from Jan-Dec, 2021

Devbhumi Dwarka District Block name	No. of Bulletins
Kalyanpur	70
Khambhaliya	70
Okhamandal	70
Total No. of Block wise Weather Bulletin	210





District Name	No. of Bulletins
Jamnagar	105
Block name	
Dhrol	105
Jamjodhpur	105
Jodiya	105
Jamnagar	105
Kalavad	105
Lalpur	105
Total No. of Block wise Weather Bulletin	630

Dissemination of weather bulletin.

Individually these bulletins are sending to farmers group by short message service (mKisan portal), and by social media by making farmers WhatsApp groups, Facebook.

Number of farmers

Particular	No. of farmers
Whatsapp Group-19	2904
KVK Facebook page	3090 followers
SMS (mKisan Portal)	70750
KVK Telegram Channel	157 Subscribers

Farmer Awareness Programmes

Climate based farming is drawing farmer near to precision agriculture. Farmers can mitigate their crops itself against uneven weather patterns, so farmer awareness programmes is more important.

Farmer Awareness Program (FAP) organized by KVK, JAU, Jamnagar under DAMU Project

	FAP/ Farmers meet /			Approx. No.		
No.	Meghdoot Popularization activities	Date	Village	Block	District	of Farmers/ Participant
1	Meghdoot App . Popularization, Field visit	19/01/2021	Khoja Beraja	Jamnagar	Jamnagar	10
2	FAP	19/01/2021	Lothiya	Jamnagar	Jamnagar	20
3	FAP, Field visit	20/01/2021	Chandragadh	Jamnagar	Jamnagar	10
4	FAP	19/08/2021	Katada	Dhrol	Jamnagar	15
5	FAP, Meghdoot App. Popularization	19/08/2021	Jayva	Dhrol	Jamnagar	10
6	Field visit	21/09/2021	Jamnagar Block Farmers	Jamnagar Block	Jamnagar	96
7	AWS site visit	22/09/2021	Kalavad Block Farmers	Kalavad Block	Jamnagar	95



	FAP/ Farmers meet /			Approx. No.		
No.	Meghdoot Popularization activities	Date	Village	Block	District	of Farmers/ Participant
8	FAP	23/09/2021	Dhrol Block Farmers	Dhrol Block	Jamnagar	100
9	AWS site visit	29/09/2021	KVK, Jamnagar	Jamnagar	Jamnagar	25
10	FAP, Field visit	6/10/2021	Samor	Jamkhambhadiya	Devbhumi Dwarka	13
11	AWS site visit	10/11/2021	KVK, Jamnagar	Jamnagar	Jamnagar	2
12	FAP, Field visit	16/12/2021	Keshod	Jamkhambhadiya	Devbhumi Dwarka	23
13	AWS site visit	24/12/2021	KVK, Jamnagar	Jamnagar	Jamnagar	15
14	AWS site visit	25/12/2021	KVK, Jamnagar	Jamnagar	Jamnagar	89
15	Krushi Mela / FAP, Meghdoot App. Popularization	28/12/2021	Jamnagar	Jamnagar	Jamnagar	1787
Total						

Article Publication

"Zero Budget Natural Farming: A New Appraisal" Sabujeema: An International Multidisciplinary e-Magazine Volume-1 issue-1 April-2021

News Coverage in vernacular language

- 1) 'ઉનાળુ પાકોમાં પાનકથીરીનો વધતો જતો ઉપદ્રવ' Krushi Prabhat on Date: 13/02/2021
- 2) 'ઉનાળુ ધાન્ય પાકોની કથીરીના ઉપદ્રવ વિષે જાણો' Krushi Prabhat on Date: 15/02/2021
- 3) 'મગફળી-તલ અને શાકભાજી પાકોમાં આવતી કથીરીનું સંકલિત નિયંત્રણ' Krushi Prabhat on Date: 16/02/2021
- 4) 'ઉનાળું તલની સફળ ખેતીના યાવીરૂપ મુદાઓ' Krushi Prabhat on Date: 20/02/2021
- 5) 'શું'તૌકતે' વાવાઝોડાની નૈઋત્યના ચોમાસા પર અસર થશે' Krushi Prabhat on Date: 22/05/2021

5) ગ્રામીણ કૃષિ મૌષમ સેવા પ્રોજેક્ટ અંતર્ગત જીલ્લા કૃષિ હવામાન એકમ દ્વારા કરવામાં આવતી ખેડૂત ઉપયોગી કામગીરી' Krushi Prabhat on Date: 28/06/2021





Farmers awareness programme



Farmers awareness programme



Awareness programme in Krushi Mela



Farmers awareness programme

B. KVKAmreli:

The District Agromet Unit is running successfully in Krishi Vigyan Kendra, JAU, Amreli since October 25, 2019 by recruitment of SMS (Agrometeorology) and Agromet observer. The District Agrometeorological Unit, KVK, JAU,

Amreli is making Agro weather bulletin for all the 11 blocks viz. Amreli, Babra, Bagasara, Dhari, Jafrabad, Khambha, Lathi, Liliya, Kunkavav-vadiya, Rajula and Savarkundla of the Amreli district and also for the District itself.

Activities under DAMU:

I. Number of Weather Bulletin prepared from January – December 2021

District Name	No. of Bulletins
Amreli	104
Block name	No. of Bulletins
Amreli	104
Babra	104
Bagasara	104
Dhari	104



Block name	No. of Bulletins
Jafrabad	104
Khambha	104
Kunkavav Vadiya	104
Lathi	104
Liliya	104
Rajula	104
Savarkundla	104
Total No. of Block wise Weather Bulletin	1144

II. Number of farmers connected

Particular	No. of farmers			
Whatsapp Group- 17	2356			
Telegram Group - 1	194 Subscribers			
Facebook page	1880 followers			

III. Detail of farmers connected through WhatsApp

	Total	No. of	No. of	No. of	No. of Extension
Name of the Block	Village in	WhatsApp	Farmers	Villages	Workers at panchayat /
	Block	Group	Covered	Covered	village level
Amreli	71	4	694	59	10
Babra	57	2	335	48	7
Bagasara	34	2	286	29	4
Dhari	75	1	162	42	8
Jafrabad	42	1	51	20	5
Khambha	57	1	127	45	3
Kunkavav-Vadia	45	2	261	41	5
Lathi	49	1	100	28	8
Lilia	37	1	78	38	6
Rajula	72	1	120	25	4
Savarkundla	80	2	276	51	15
Total	619	18	2490	426	75

IV. Farmer Awareness Program (FAP) organized by KVK, JAU, Amreli under DAMU

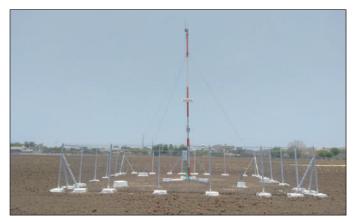
No.	FAP/ Farmers meet /Meghdoot	Date	Location		Approx. No. of Farmers
110.	Popularization activities	Date	Village	Block	attended the Program
1	FAP, App. Popularization,	16-01-21	Lilia	Lilia	25
2	FAP, Meghdoot	18-01-21	Halriya	Bagasara	24
	App. Popularization				
3	FAP, Meghdoot	20-01-21	Sukhpur	Babra	12
	App.Popularization, Field visit				





No.	FAP/ Farmers meet /Meghdoot	Date	Data Locat		Approx. No. of Farmers
110.	Popularization activities	Date	Village	Block	attended the Program
4	FAP, Meghdoot	15/07/21	Amreli	Amreli	29
	App. Popularization				
5	FAP, Meghdoot	14/09/21	Mangvapal	Amreli	47
	App. Popularization				
6	FAP, Meghdoot	23/09/21	Pithadiya	Bagasara	61
	App. Popularization				
		198			

Photographs of different activities carried out under DAMU Amreli



Automatic weather station at KVK Amreli



Farmers visited Automatic weather station







Photographs of different activites during 2021-22



Hon' ble State Minister visited Agri Gujarat Expo - 2021



Hon' ble Agriculture Ministre Visited KVK Amreli



Collobrative training with EEI, Anand



Celebration of Sardar Patel Jayanti at SSK



Online Varsha Vigyan Parisavand





Vruksh Vitran Rath Opening



Pro. (Dr.) N. K. Gotia, Hon' ble Vice Chancellor visited KVK Pipalia



On Campus training programme by KVK Amreli



FLD by KVK Pipalia



FLD by KVK Traghadia





Celebration of field day by KVK Nana Kandhasar



FLD by KVK Morbi



Field Day by KVK Khapat



SAC meeting at KVK Jamnagar



World Women Day Celebration by KVK Amreli





Pashupalan Shibir by KVK Nana Kandhasar



Posan Maha celebration by KVK Morbi



Technology week celebration by KVK Traghadia



Khedut shibir by KVK Pipalia



Exposer visit by KVK Targhadia









Kisan Mela Organized by KVK Amreli



International women day by KVK Jamnagar



Kishan goshthi by KVK Jamnagar



Input Delear's Course Opening



Case study / Success story



PROFILE OF FARM INNOVATORS

Thematic Area: Horticulture with Micro irrigation "Entrepreneurship Development through Organic Farming & Value addition"

Dr. K. P. Baraiya, Smt. A. K. Baraiya Krishi Vigyan Kendra Junagadh Agricultural University, Jamnagar

1. Personal Profile			2. Problem/ challenge Faced				
Name of farmer		Khirsariya Rajnikantbhai	Khirsariya Rajnikantbhai (Bhupatbhai)				
		(Bhupatbhai) Karshanbhai	Karshanbhaiis only 10 class educated, having				
Contact No.	:	9825208551	10 Gir cow, having 7.2 ha land with different ordinary cropping pattern. He lived in very				
		Khirsariyaraj @gmail.com					
Address Res.	:	"Shree Apartment,	interior village Morzar, Ta. Bhanvad of District				
		Ground floor,	Devbhumi Dwarka (Earlier Jamnagar District).				
		Ambaji Kadva Main Road,	He faces following challenges in his life				
		Rajkot-360 004 (Gujarat)	• Low education (10 Std.)				
Address Farming	:	At. Morzar, Ta. Bhanvad,	 Labour chrysies& high cost 				
		Dist. Devbhumi Dwarka	Poor understanding labour				
Age	:	54 Years	Lack of marketing				
Education	:	10 Standard	High production cost				
Land holding	:	7.2 ha	High chemical fertilizer, pesticides etc.				
Crops grown	:	Groundnut, Medicinal Plants,	usages.				
		Vegetables, Cereals, Grains	• Resurgence of pest & Disease				
		Moringa, Lemon, Tomato,	Poor soil fertility				
		okra, cucumber, ridge gourd,	 Lack of scientific technology knowhow 				
		etc.	From starting, he used more pesticide and				
Livestock	:	Cow-20 Gir breed	Chemical fertilizer due to that increase cost of				
Business	:	Organic Farming, Animal	cultivation and reduce net profit.				
		keeping & marketing with					
		Value addition					
Special recognition	:	Innovative and Progressive					
		farmer					
3 Description of innovative practice/technology							

- 3 Description of innovative practice/technology
 - Started Gir cow unit
 - Adopt micro irrigation system
 - Innovative in farming with lemon cultivation
 - Multi story farming

18th ANNUAL REPORT 2021-22

- Vegetable grow organically
- One step ahead in chemical less farming
- Cow based medicines preparation
- Cow based FYM & Gaumutra usages for cultivation.
- Prepare health and nutritional product from moringa
- Value addition in fruit & vegetable, moringa powder
- Lemon cultivation with organically
- Grading and packing of lemon
- Market at New Delhi, Mumbai, Ahmedabad, Surat, etc.
- For more profit "do not gave farming on rental basis, but kept daily labour"
- Using Drip Irrigation for application of Jivamrut and even for cow urine.
- Processing Unit for Post Harvest treatment for products.
- Well-equipped Cow Shed.

Value Addition, Ayurvedic medicines, Gir Cow-based Organic farming, health & Nutritional based products preparation & Marketing

Awareness to farmers for value addition in agricultural products. He is farming with cow-based organic farming, since last 10 years. He is using multistory farming with moringa (Drum stick) + vegetables, Micro irrigation usages. His moto for "Do not gave farm to partnership to labour, but kept labour every day basis, then you can profit more". He spread technologies from every government program and advise to farmers about his success and follow him for success. Prepare ayurvedic medicines, nutritional based product and value added and pack it and directly marketing through "Mall", he initiated the mall concept and joined to different organic growers in his marketing system and support them.

He produces and pack themselves Gir Cow Ghee, health and nutrient product, rock salt, Produce groundnut organically and extract oil with attractive packing, babul fali powder, etc.

4 Salient features

- Organic mall
- One step chemical less produce
- Health and hygienic produce
- Best farmers award
- Acting as ambassador for organic produce
- Support to other farmers for marketing
- Farmers to farmers dissemination of technology Krushirushi in Krishi Mahotshav programme

5 Practical utility

- Labour saving,
- High marketing price
- Consult him for value addition
- Fresh vegetable available from "Organic Mall"
 Drumstick powder having high medicinal value



6 Source of information

Continuous contact with KVK and ATMA also visit exposure training at JAU, Junagadh she motivate for vegetable cultivation. Then, she started vegetable cultivation *viz.*, okra, cucumber, tomato, ridge gourd, etc. Rajnikant K. Khirsariya has already 30 days (200 Hours) skill training course also done from Krishi Vigyan Kendra, JAU, Jamnagar

Economics/Profitability of innovative practice/ technology (costs and return) (per intervention or area or household)

The price of tomato earned Rs. 7 to 10 per kg (average Rs. 8/kg). Gross earning is Rs. 5 lakhs per hectare and the cost of production of tomato was 1.25 lakhs per hectare. Thus, net benefit Rs. 3.75 lakhs per hectare CBR=(1:3)

8 Details of result obtained due to the adoption of technologies

Particulars	Before NF	After NF			
Crop Production (q/ha)	24	36			
Cost of Production per hectare (Rs)	25000	Nil			
Net profit per hectare (Rs)	200000	700000			
Number of Sprays	5	8 Spray Jivamrut, Dasparni Ark etc.			
Cost of Spray (Rs)	11200	500			
Natural Resource saved/ conserved like	Irrigation-8	Irrigation-5			
Soil, water etc.		Soil Conservation, Decreased Soil			
		Erosion, Increased Soil Carbon			
Product Quality Improvement	POOR	BEST QUALITY			
Marketing Strategy	APMC	Developed Processing Unit, Self-			
		Selling by proper marketing, grading,			
		packaging			

9 Potential: Acceptance level, horizontal spread of innovation and number of farmer adopting

During the era of organic farming, she has appreciated for the cultivation of organic vegetable cultivation and started one steps in an innovative work. Many farmers of the district were visited her farm. She got many awards for the animal keeping and vegetable cultivation. Door Darsha has special recorded her success story and broadcast from DD Girnar Channel during Mahila Jagat Programme. Thus, horizontal of the technology in district as well as whole state through telecasting.



10 Illustrate with Photographs

















PROFILE OF FARM INNOVATORS Thematic Area: Organic Cultivation

"Organic Exotic Fruit and Vegetable cultivation with its Value Addition"

Baraiya K P Baraiya A K, Godhani H S Krishi Vigyan Kendra Junagadh Agricultural University, Jamnagar

1. Personal Profile			2. Organic Exotic Fruit and Vegetable
			cultivation with its Value Addition
Name of farmer	:	Jesadiya Vishal	Jesadiya Vishal Lavjibhai is young &
		Lavjibhai	enthusiastic farmer of Anandpar village, of
Contact No.	:	9558379098	Kalavad Taluka, Jamnagar district.
Address	:	At Anandpur,	Anandpar is well attached on Kalavad-
		Ta. Kalavad	Rajkot highway, and it is very near to
		Dist Jamnagar	Rajkot (the capital city of Saurashtra
Age	:	29	region).
Education	:	Graduate	This village is 22 km from Kalavad
Land holding	:	2.09 ha	and 27 km from Rajkot. It come under
Crops grown	:	Dragon Fruit,	North Saurashtra Agro-Climatic Zone
		avocado,	having hardly 350 to 400 mm erratic
		Persimmon, apple,	rainfalls. Anandpar having no any
		Strawberry, purple	irrigation facility available as well as no
		flower, Thai basil,	any reservoir (Dam). They completely
		broccoli, green	depend on rainfall.
		kale, lettuce,	After completion of graduation Vishal
		American red kale,	has started service of marketing in the
		Zucchini,	corporate (pesticide and seed) company.
		Knolkhol, Celery	During this job, he visited different
Livestock	:	Cow – 1,	progressive farmers and different cropping
		Heifers −2,	patters of farmers. He was very interested
Business	:	Farming,	in organic farming as well as in
Special recognition	:	Innovative and	horticultural crop grown. Along with the
		Progressive farmer	service he has started his normal farming
			with his father. During this period, he
			doing different experiment of new fruit
			and vegetable crops on his farm, but at the
			starting his father has not support for the
			different experiments done on his own



	field. He come in contact Scientist of
	Krishi Vigyan Kendra, JAU, Jamnagar
	during field work in the district. He also
	visited different states with ATMA project
	for this study. He also visited Department
	of Horticulture at JAU, Junagadh, and also
	contact to Dy. Director of Horticulture,
	Jamnagar for horticulture farming. Thus,
	encourages for organic farming with exotic
	vegetable and fruit cultivation.

3. Practical Utility of the Innovation/ Mode etc.

Jesadiya Vishal Lavjibhai is young, enthusiastic and innovative farmer. Now a day's organic era is come back in the country. People need chemical less and quality food products. The economics of the Indian people have been increased as compare to three decades back. He doing common farming practices like groundnut, cotton, onion, wheat, etc. with his father up to his study period. After completion of study, he started service in corporate company. During this period, he has started new experiment on his farm with his father. But his father does not support him for different experiment of new fruit and vegetable. Then, he thought for the think out of box and started separate farming business. He has work hard and get knowledge for cultivation of different exotic vegetables as well as fruits crops. He started dragon fruit and strawberry cultivation. He also established dragon fruit nursery for true to type sapling. He supplies saplings to many farmers for development of dragon fruit plantation. His nursery was approved by Central Horticultural Board, Government of India. He started different value-added products from dragon fruit with the help of Krishi Vigyan Kendra, JAU, Jamnagar.

He joined interstate tour of ATMA project, and visited Dr. Y. S. Parmar University, Shimla and participation in the seminar of strawberry cultivation held at New Delhi under Department of Horticulture, programme. He stated strawberry cultivation on his own farm in Anandpur. Thus, he proved that the crop of tropical region can also grow in sub-tropical region. He also sales by packing in attracting packaging.

Then, after the growth cannot stop at this step, he established "Gujarat Green Organic Farm" he grow many other exotic fruits like avocado, Persimmon, apple, Strawberry etc. On another hand, he has started many vegetables. cultivation of local and exotic like purple flower, Thai basil, broccoli, green kale, lettuce, American red kale, Zucchini, knolkhol, Celery etc. on his field at Anandpar.

Vishalbhai sales all these produce to the hotels, direct consumers and earn Economics of cow unit.

Voor	Cuan	Area	Production	Total Income	Total Cost	Net Income
Year	Crop	ha.	kg/ha	Rs.	Rs.	Rs.
2018-19	Dragon Fruit	0.3	500	180000	20000	160000
2019-20	Dragon Fruit	0.3	1200	240000	20000	220000
	Strawberry	0.16	3000	300000	60000	240000
2020-21	Dragon Fruit	0.3	1500	300000	20000	280000
	Strawberry	0.16	3500	350000	60000	290000



Vishalbhai sales all exotic fruit and vegetables to the hotels and direct consumers with good earning. Thus, he also sales sapling from his certified nursery and earn very good then fruit and vegetable production.

Around 15 farmers visit his nursery and started their own fruit and vegetable cultivation. Thus, horizontal spread of technology is very high.

Thus, really he has efforts more and achieve a big hight.

Action Photographs

































ભાસ્કર વિશેષ | એક્સોટિક વેજિટેબલમાં પર્પલ ફ્લાવર, થાય બેસિલ, બ્રોકલી, લેટ્યુસ સહિતનાનો સમાવેશ

ભાસ્કર વિશેષ | એક્સોરિક વેજિટેબલમાં પર્પલ ફ્લાવર, થાય બેસિલ, બ્રોકલી, લેટ્યુસ સહિતનાનો સમાવેશ યુટોપિયન દેશોમાં થતાં એક્સોરિક શાકભાજનું રાજકોટમાં વાવેતર, ઉત્પાદન ખર્ચ 20 હજારનો, આવક દોઢ લાખ જેટલી હોસ્ત મહાના સાથ એક્સોરિક શાકભાજનું વાસ્ત સહતા સાથ વિકાર કર્યા હાલ્યા છે. સ્લેરોમાં પાતા શાકભાજનું વાસ્ત કર્યા હાલ્યા છે. સ્લેરોમાં આ પ્રાપ્ત કર્યા હાલ્યા છે. સ્લેરોમાં હાલ્યા હાલ્ય













